

(FILE 'USPAT' ENTERED AT 12:14:42 ON 21 MAY 1999)

L1	145 S DR5 OR (DEATH(2A)RECEPTOR(W)5)
L2	35 S L1 AND RECEPTOR?
L3	0 S (DEATH(2A)RECEPTOR(W)5)
L4	0 S DR5 AND TRAIL
L5	1 S DR5 AND FAS
	E NI, JI/IN
L6	11 S E4 OR E5
	E GENTZ, R/IN
L7	11 S E4 OR E5
	E ROSEN, CRAIG/IN
L8	31 S E4
L9	1 S E3
L10	47 S L6 OR L7 OR L8 OR L9
L11	1 S (FAS OR TRAIL) AND L10

=> d

1. 5,874,240, Feb. 23, 1999, Human 4-1BB receptor splicing variant;  
**Jian Ni**, et al., 435/69.1, 252.3, 254.11, 320.1, 325; 530/350, 395;  
 536/23.1, 23.5 [IMAGE AVAILABLE]

(FILE 'HOME' ENTERED AT 12:24:12 ON 21 MAY 1999)

21 FILE 'MEDLINE, EMBASE, BIOSIS, CAPLUS, INPADOC' ENTERED AT 12:24:45 ON  
MAY 1999

L1	80 S DR5 AND (TRAIL OR FAS)
L2	45 S DEATH(3W)RECEPTOR(W)5
L3	37 S L2 AND (FAS OR TRAIL)
L4	45 S L2 OR L3
L5	101 S L1 OR L4
L6	31 S L5 NOT PY>1997
L7	14 DUP REM L6 (17 DUPLICATES REMOVED) E NI J/AU
L8	236 S E3
L9	347 S E41 E GENTZ R/IN E GENTZ R/AU
L10	1 S E7
L11	382 S E4-E8
L12	267 S L8 OR L9 AND (TRAIL OR (DEATH(3W)RECEPTOR?))
L13	266 S L12 NOT L7
L14	48 S (L8 OR L9) AND (TRAIL OR (DEATH(3W)RECEPTOR?))
L15	47 S L14 NOT L7
L16	20 DUP REM L15 (27 DUPLICATES REMOVED)

- L7 ANSWER 4 OF 14 MEDLINE  
 TI Identification and molecular cloning of two novel receptors for the cytotoxic ligand **TRAIL**.  
 AU MacFarlane M; Ahmad M; Srinivasula S M; Fernandes-Alnemri T; Cohen G M; Alnemri E S  
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1997 Oct 10) 272 (41) 25417-20.  
 Journal code: HIV. ISSN: 0021-9258.
- L7 ANSWER 5 OF 14 MEDLINE  
 TI **TRAIL**-R2: a novel apoptosis-mediating receptor for **TRAIL**.  
 AU Walczak H; Degli-Esposti M A; Johnson R S; Smolak P J; Waugh J Y; Boiani N; Timour M S; Gerhart M J; Schooley K A; Smith C A; Goodwin R G; Rauch C T  
 SO EMBO JOURNAL, (1997 Sep 1) 16 (17) 5386-97.  
 Journal code: EMB. ISSN: 0261-4189.
- L7 ANSWER 7 OF 14 MEDLINE  
 TI **TRAIL** receptors 1 (DR4) and 2 (**DR5**) signal FADD-dependent apoptosis and activate NF-kappaB.  
 AU Schneider P; Thome M; Burns K; Bodmer J L; Hofmann K; Kataoka T; Holler N; Tschopp J  
 SO IMMUNITY, (1997 Dec) 7 (6) 831-6.  
 Journal code: CCF. ISSN: 1074-7613.
- L7 ANSWER 8 OF 14 MEDLINE  
 TI **Death receptor 5**, a new member of the TNFR family, and DR4 induce FADD-dependent apoptosis and activate the NF-kappaB pathway.  
 AU Chaudhary P M; Eby M; Jasmin A; Bookwalter A; Murray J; Hood L  
 SO IMMUNITY, (1997 Dec) 7 (6) 821-30.  
 Journal code: CCF. ISSN: 1074-7613.
- L7 ANSWER 14 OF 14 MEDLINE  
 TI Characterization of two receptors for **TRAIL**.  
 AU Schneider P; Bodmer J L; Thome M; Hofmann K; Holler N; Tschopp J  
 SO FEBS LETTERS, (1997 Oct 27) 416 (3) 329-34.  
 Journal code: EUH. ISSN: 0014-5793.

- L7 ANSWER 1 OF 14 MEDLINE  
 TI On the **TRAIL** from p53 to apoptosis? [news].  
 AU Kastan M  
 SO NATURE GENETICS, (1997 Oct) 17 (2) 130-1.  
 Journal code: BRO. ISSN: 1061-4036.
- L7 ANSWER 2 OF 14 MEDLINE  
 TI KILLER/DR5 is a DNA damage-inducible p53-regulated death receptor gene [letter].  
 AU Wu G S; Burns T F; McDonald E R 3rd; Jiang W; Meng R; Krantz I D; Kao G; Gan D D; Zhou J Y; Muschel R; Hamilton S R; Spinner N B; Markowitz S; Wu G; el-Deiry W S  
 SO NATURE GENETICS, (1997 Oct) 17 (2) 141-3.  
 Journal code: BRO. ISSN: 1061-4036.
- L7 ANSWER 3 OF 14 MEDLINE  
 TI How **TRAIL** kills cancer cells, but not normal cells [news; comment].  
 AU Gura T  
 SO SCIENCE, (1997 Aug 8) 277 (5327) 768.  
 Journal code: UJ7. ISSN: 0036-8075.
- L7 ANSWER 6 OF 14 MEDLINE DUPLICATE 2  
 TI A novel receptor for Apo2L/**TRAIL** contains a truncated death domain.  
 AU Marsters S A; Sheridan J P; Pitti R M; Huang A; Skubatch M; Baldwin D; Yuan J; Gurney A; Goddard A D; Godowski P; Ashkenazi A  
 SO CURRENT BIOLOGY, (1997 Dec 1) 7 (12) 1003-6.  
 Journal code: B44. ISSN: 0960-9822.
- L7 ANSWER 9 OF 14 MEDLINE DUPLICATE 5  
 TI Control of **TRAIL**-induced apoptosis by a family of signaling and decoy receptors [see comments].  
 AU Sheridan J P; Marsters S A; Pitti R M; Gurney A; Skubatch M; Baldwin D; Ramakrishnan L; Gray C L; Baker K; Wood W I; Goddard A D; Godowski P; Ashkenazi A  
 SO SCIENCE, (1997 Aug 8) 277 (5327) 818-21.  
 Journal code: UJ7. ISSN: 0036-8075.
- L7 ANSWER 10 OF 14 MEDLINE DUPLICATE 6  
 TI An antagonist decoy receptor and a death domain-containing receptor for **TRAIL** [see comments].  
 AU Pan G; Ni J; Wei Y F; Yu G; Gentz R; Dixit V M  
 SO SCIENCE, (1997 Aug 8) 277 (5327) 815-8.  
 Journal code: UJ7. ISSN: 0036-8075.
- L7 ANSWER 11 OF 14 CAPLUS COPYRIGHT 1999 ACS  
 TI Bcr-abl translocation can occur during the induction of multidrug resistance and confers apoptosis resistance on myeloid leukemic cell lines  
 AU Belloc, Francis; Cotteret, Sophie; Labroille, Gilles; Schmit, Valerie; Jaloustre, Claudine; Dumain, Patrice; Durrieu, Francoise; Reiffers, Josy; Boisseau, Michel R.; Bernard, Philippe; Lacombe, Francis  
 SO Cell Death Differ. (1997), 4(8), 806-814  
 CODEN: CDDIEK; ISSN: 1350-9047
- L7 ANSWER 12 OF 14 MEDLINE  
 TI Cell death: **TRAIL** and its receptors.

AU Golstein P  
SO CURRENT BIOLOGY, (1997 Dec 1) 7 (12) R750-3. Ref:  
Journal code: B44. ISSN: 0960-9822.

L7 ANSWER 13 OF 14 MEDLINE

TI TRICK2, a new alternatively spliced receptor that transduces the  
cytotoxic  
signal from **TRAIL**.

AU Screation G R; Mongkolsapaya J; Xu X N; Cowper A E; McMichael A J; Bell J  
I

SO CURRENT BIOLOGY, (1997 Sep 1) 7 (9) 693-6.  
Journal code: B44. ISSN: 0960-9822.

L16 ANSWER 7 OF 20 CAPLUS COPYRIGHT 1999 ACS

AB The present invention relates to a novel human gene encoding a polypeptide

which is a member of the TNF receptor family, and has now been found to bind **TRAIL** (TNF-related apoptosis-inducing ligand). More specifically, an isolated nucleic acid mol. is provided encoding a human polypeptide named tumor necrosis factor receptor-5, sometimes referred to as "TNFR-5" or "TR5", and now referred to hereinafter as "**TRAIL** receptor without intracellular domain" or "TRID". The human TRID clone contains an open reading frame encoding a polypeptide of 259 amino acid residues, with a leader sequence of 26 amino acids. TRID has an extracellular **TRAIL**-binding domain (residues from about 1 to about 214) and a transmembrane domain but lacks a putative intracellular signaling domain. TRID protects cells from **TRAIL**-induced apoptosis. TRID polypeptides are also provided, as are vectors, host cells, and recombinant methods for producing the same. The invention further relates to screening methods for identifying agonists or antagonists of **TRAIL** polypeptide activity. Also provided are diagnostic and therapeutic methods utilizing such comps.

=> d 7 ti, au, so

L16 ANSWER 7 OF 20 CAPLUS COPYRIGHT 1999 ACS

TI Cloning and cDNA sequence of human tumor necrosis factor receptor 5 or TRID (**TRAIL** receptor without intracellular domain)

IN Wei, Ying-fei; Ni, Jian; Ebner, Reinhard; Yu, Guo-liang; Ruben, Steven M.; Gentz, Reiner L.; Feng, Ping

SO PCT Int. Appl., 91 pp.  
CODEN: PIXXD2

=> d 7

L16 ANSWER 7 OF 20 CAPLUS COPYRIGHT 1999 ACS

AN 1998:493681 CAPLUS

DN 129:118787

TI Cloning and cDNA sequence of human tumor necrosis factor receptor 5 or TRID (**TRAIL** receptor without intracellular domain)

IN Wei, Ying-fei; Ni, Jian; Ebner, Reinhard; Yu, Guo-liang; Ruben, Steven M.; Gentz, Reiner L.; Feng, Ping

PA Human Genome Sciences, Inc., USA; Wei, Ying-Fei; Ni, Jian; Ebner, Reinhard; Yu, Guo-Liang; Ruben, Steven M.; Gentz, Reiner L.; Feng, Ping

SO PCT Int. Appl., 91 pp.  
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9830693	A2	19980716	WO 98-US152	19980113
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			

AU 9862386  
PRAI US 97-35496  
US 97-54885  
WO 98-US152

71 19980803  
70114  
19970807  
19980113

AU 98-62386

19980113

L16 ANSWER 17 OF 20 EMBASE COPYRIGHT 1999 ELSEVIER SCI. B.V.DUPLICATE 8  
TI An antagonist decoy receptor and a **death** domain-containing  
**receptor** for **TRAIL**.

AU Pan G.; **Ni J.**; Wei Y.-F.; Yu G.-I.; Gentz R.; Dixit V.M.  
SO Science, (1997) 277/5327 (815-818).

Refs: 20

ISSN: 0036-8075 CODEN: SCIEAS

L16 ANSWER 16 OF 20 INPADOC COPYRIGHT 1999 EPO

TI DEATH DOMAIN CONTAINING RECEPTORS.

INS YU GUO-LIANG; NI JIAN; DIXIT VISHVA M; GENTZ REINER L; DILLON PATRICK J

L16 ANSWER 13 OF 20 MEDLINE

DUPLICATE 6

TI TRUNDD, a new member of the **TRAIL** receptor family that  
antagonizes **TRAIL** signalling.

AU Pan G; **Ni J**; Yu G; Wei Y F; Dixit V M

SO FEBS LETTERS, (1998 Mar 6) 424 (1-2) 41-5.

Journal code: EUH. ISSN: 0014-5793.

L16 ANSWER 11 OF 20 MEDLINE

DUPLICATE 4

TI **Death** domain **receptors** and their role in cell demise.

AU Singh A; **Ni J**; Aggarwal B B

SO JOURNAL OF INTERFERON AND CYTOKINE RESEARCH, (1998 Jul) 18 (7) 439-50.

Ref: 129

Journal code: CD4. ISSN: 1079-9907.

L16 ANSWER 8 OF 20 INPADOC COPYRIGHT 1999 EPO

TI DEATH DOMAIN CONTAINING RECEPTOR 5.

INS NI JIAN; GENTZ REINER L; YU GUO-LIANG; SU JEFFREY Y; ROSEN CRAIG A

=> d 8, 4, 2

L16 ANSWER 8 OF 20 INPADOC COPYRIGHT 1999 EPO

AN 28676468 INPADOC UW 9851 UP 981226 EW 9851 ED 981226

TI DEATH DOMAIN CONTAINING RECEPTOR 5.

IN JIAN NI; REINER L GENTZ; GUO-LIANG YU; JEFFREY Y. SU; CRAIG A ROSEN

INS NI JIAN; GENTZ REINER L; YU GUO-LIANG; SU JEFFREY Y; ROSEN CRAIG A

PA HUMAN GENOME SCIENCES, INC.

PAS HUMAN GENOME SCIENCES INC

DT Patent

PIT AUA1 COMP. SPEC. OPEN TO PUB. INSP.

PI AU 9867635 A1 981012

AI AU 98-67635 A 980317

PRAI US 97-40846 P 970317 EWPR 9841 EDPR 981017

US 97-54021 P 970729 EWPR 9841 EDPR 981017

WO 98-US5377 W 980317 EWPR 9851 EDPR 981226 \*

L16 ANSWER 4 OF 20 CAPLUS COPYRIGHT 1999 ACS DUPLICATE 1

AN 1998:640345 CAPLUS

DN 129:256017

TI **Death** domain containing **receptor** 5 and nucleic acids  
encoding DR5

IN **Ni, Jian**; Gentz, Reiner L.; Yu, Guo-liang; Su, Jeffrey Y.;  
Rosen, Craig A.

PA Human Genome Sciences, Inc., USA

SO PCT Int. Appl., 90 pp.

CODEN: PIXXD2



DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9841629	A2	19980924	WO 98-US5377	19980317
	WO 9841629	A3	19981029		
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9867635	A1	19981012	AU 98-67635	19980317
PRAI	US 97-40846		19970317		
	US 97-54021		19970729		
	WO 98-US5377		19980317		
L16	ANSWER 2 OF 20 INPADOC COPYRIGHT 1999 EPO				
AN	28943053 INPADOC	UW 9911	UP 990327	EW 9908	ED 990306
TI	DEATH DOMAIN CONTAINING RECEPTORS.				
IN	YU, GUO-LIANG; NI, JIAN; DIXIT, VISHVA, M.; GENTZ, REINER, L.; DILLON, PATRICK, J.				
INS	YU GUO-LIANG; NI JIAN; DIXIT VISHVA M; GENTZ REINER L; DILLON PATRICK J				
INA	US				
PA	HUMAN GENOME SCIENCES, INC.; THE REGENTS OF THE UNIVERSITY OF MICHIGAN				
PAS	HUMAN GENOME SCIENCES INC; UNIV MICHIGAN				
PAA	US				
LA	English				
TL	English; French; German				
DT	Patent				
PIT	EPA1 PUBL. OF APPLICATION WITH SEARCH REPORT				
PI	EP 898576	A1	990303		
DS	R AT; R BE; R CH; R DE; R DK; R ES; R FI; R FR; R GB; R GR; R IE; R IT;				
R	LI; R LU; R MC; R NL; R PT; R SE				
AI	EP 96-941942	A	961017		
PRAI	WO 96-US16849	W	961017	EWPR 9752	EDPR 980103
	US 96-13285	P	960312	EWPR 9740	EDPR 971011